CONTENTS

Professor Pierre-Gilles de Gennes vii
Models of chemical reactions with participation of polymers
G. Oshanin, M. Moreau (Paris, France) and S. Burlatsky (Moscow, Russian Federation and Cambridge, MA, USA) 1
Porous media: a model system for the physics of disorder
J.P. Hulin (Paris, France) 47
Properties of surfactant monolayers in relation to microemulsion phase behaviour
H. Kellay (Paris, France), B.P. Binks (Hull, UK), Y. Hendrikx (Orsay, France), L.T. Lee (Gif/Yvette, France) and J. Meunier (Paris, France) 85
Globular and bicontinuous phases of nonionic surfactant films
U. Olsson and H. Wennerström (Lund, Sweden) 113
Phase rule for capillary systems
D. Li (Edmonton, Alta., Canada) and A.W. Neumann (Toronto, Ont., Canada) 147
The shapes of liquid menisci near heterogeneous walls and the effect of line tension on contact angle hysteresis
J. Gaydos (Ottawa, Ont., Canada) and A.W. Neumann (Toronto, Ont., Canada) 197
Dynamic surface and interfacial tensions of surfactant and polymer solutions
R. Miller (Berlin, Germany), P. Joos (Wilrijk, Belgium) and V.B. Fainerman (Donetsk, Ukraine) 249
Linear energy with positive and negative sign
D. Exerowa, D. Kashchiev, D. Platikanov and B.V. Toshev (Sofia, Bulgaria) . 303
Interactions between biosurfaces
P.F. Luckham and P.G. Hartley (London, UK) 341